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cus lævicaudus, and a new genus and species of snakes, *Enulius murinus*. In the "Catalogue of Reptilia and Batrachia obtained by C. J. Maynard in Florida," Prof. Cope describes a new lizard, *Plustodon onocrepis* Cope, and a new salamander, *Manculus remifer*. Dr. Packard in a "List of Insects collected at Pebas, Ecuador, and presented by Prof. James Orton" describes as new *Attacus Amazonia*. Mr. Smith in the "List of the Crustacea collected by J. A. McNiel in Central America," describes a number of new crabs: *Leptopodia debilis*, *Ozius integer*, *Arenæus bidenis*, *Gebia spinissima*, *Atya rivalis*, *A. tenella*, *Evatya* (n. g.) *crassa*, *Leander gracilis* and *Palæmon tenellus*.

CORALS AND POLYPS OF THE WEST COAST OF AMERICA.*—Of this elaborate work, with its careful and detailed descriptions and most excellent illustrations, we can only give the author's general results, both from want of space, as well as a knowledge of the subject. Two years ago Prof. Verrill called attention to the remarkable contrast between the assemblages of polyps found on the Atlantic and Pacific coasts of Central America, and the bearing of these facts upon the supposed former connection between the two oceans, across the Isthmus of Panama. He is now able to state that "the additional forms now presented make these contrasts still greater and more remarkable, and add greater force to the evidence then brought forward to show that no deep or extensive water connection, sufficient to modify the ocean currents, can have taken place since the existence of the species now living upon each coast."

"The polyps of Panama prove to be remarkably rich in sea fans (Gorgonacea), no less than forty-three species having been already obtained. Of these the genus *Muricea* appears here to attain to its greatest development, since fifteen species, besides several peculiar varieties, perhaps distinct, are in our collection from Panama Bay, and others from Acapulco and Peru, while from the West Indies there are but four well-ascertained species." "The occurrence of two peculiar, gigantic species of *Pavonia*, a genus

*Notes on Radiata in the Museum of Yale College. By A. E. Verrill. No. 6.—Review of the Corals and Polyyps of the West Coast of America (with 6 plates). No. 7.—Geographical Distribution of the Polyyps and Corals of the West Coast of America. No. 8.—Additional Observations on Echinoderms, chiefly from the Pacific Coast of America. No. 9.—The Echinoderm-fauna of the Gulf of California and Cape St. Lucas. (From the Transactions of the Connecticut Academy of Arts and Sciences. Vol. 1.) March 1871. 8vo, pp. 219.

of corals hitherto known only in the Indo-Pacific faunæ, is noteworthy, and also the presence of a peculiar new form of *Dendrophyllia*."

In the seventh part, on the geographical distribution of the polyps, lists of the species found in the five provinces, between and including the Arctic region and Panama, are given.

ECONOMICAL ENTOMOLOGY IN CANADA.*—This subject is wisely taken in hand by the farmers and fruit raisers of Canada and the report on the insects injurious to the apple, grape, and plum, can not but be hailed with joy by those desirous of distinguishing these pests, of knowing their habits, and how to combat them. The information is prepared by those thoroughly acquainted with the subject, and the work is well illustrated, though not so well printed as desirable, a common failing of public documents on this continent. Mr. Saunders' report on the plum weevil, in the same pamphlet, contains an interesting account of the efforts made to capture the plum weevil in large numbers, by the offer of prizes. One person sent in twenty-two hundred and eighty weevils taken by jarring twenty plum trees, ten English cherry and thirty peach trees, between the 24th of May and the 19th of June!

NATURAL HISTORY MISCELLANY.

BOTANY.

DARLINGTONIA CALIFORNICA.—It is now more than sixteen years since that distinguished botanist, M. Alphonse De Candolle, published in the *Bibliothèque de Genève* some remarks on the genus *Darlingtonia*, a translation of which appeared in a horticultural journal of Philadelphia.

M. De Candolle states that the figure of the plant exhibits a character not mentioned by me in the description, and which is very remarkable if it be real; that is, if it be not an error of the

*First Annual Report on the Noxious Insects of the Province of Ontario. Prepared for the Agricultural and Arts and Fruit Growers' Associations of Ontario, on behalf of the Entomological Society of Canada. By Rev. C. J. S. Bethune, William Saunders and E. B. Reed. Toronto, 1871. 8vo, pp. 66.